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Serial No.: 10/675,544

8

**REMARKS**

Kindly enter this Preliminary Amendment before first action on the merits. By this Preliminary Amendment, Applicants have amended the specification to correct minor typographical errors. These amendments introduce no new matter.

Respectfully submitted,

Anthony J. GOUNALIS

By: Randy J. Pritzker

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Docket No. L0562.70043US00

Date: March 1, 2004

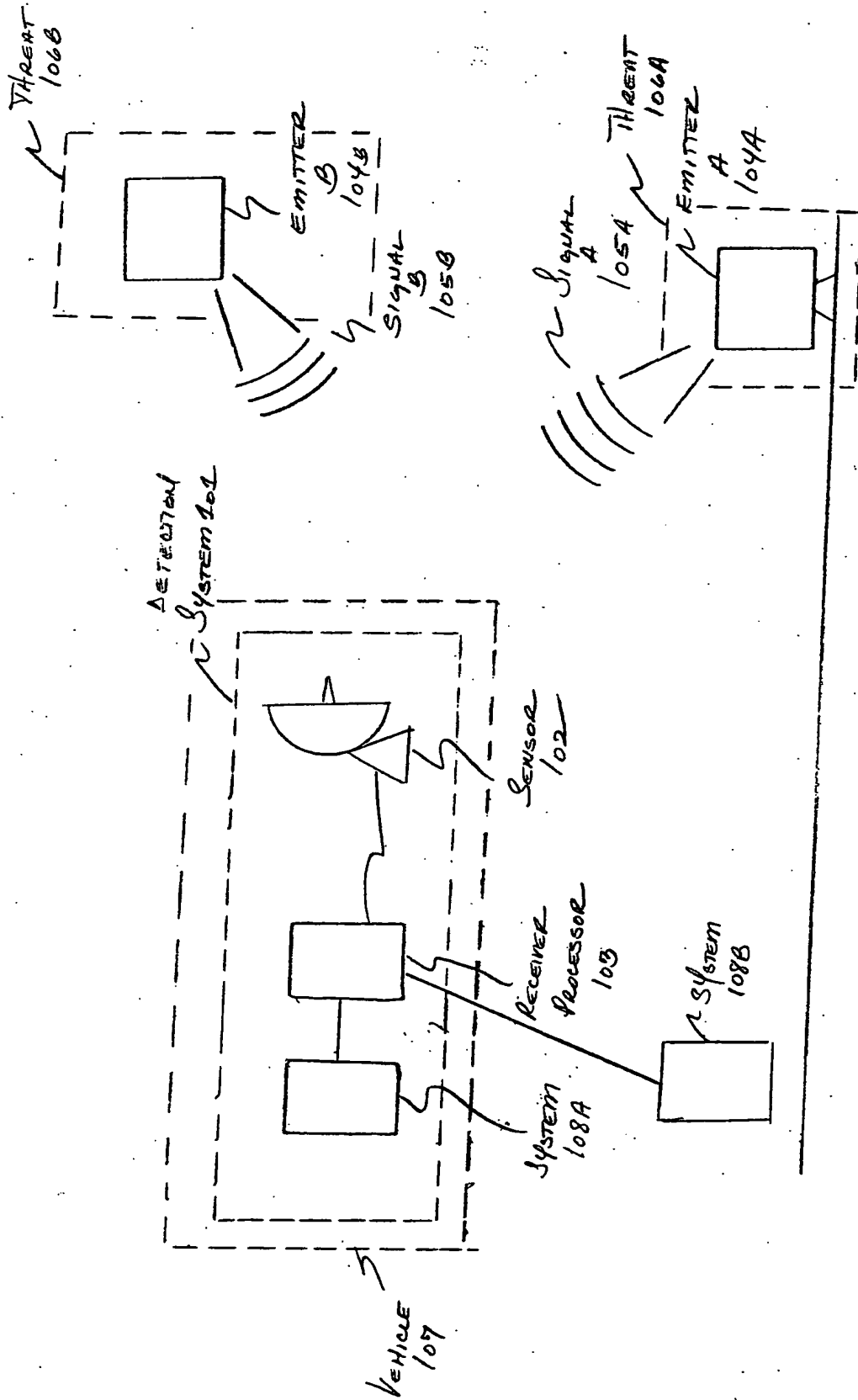


Figure 1

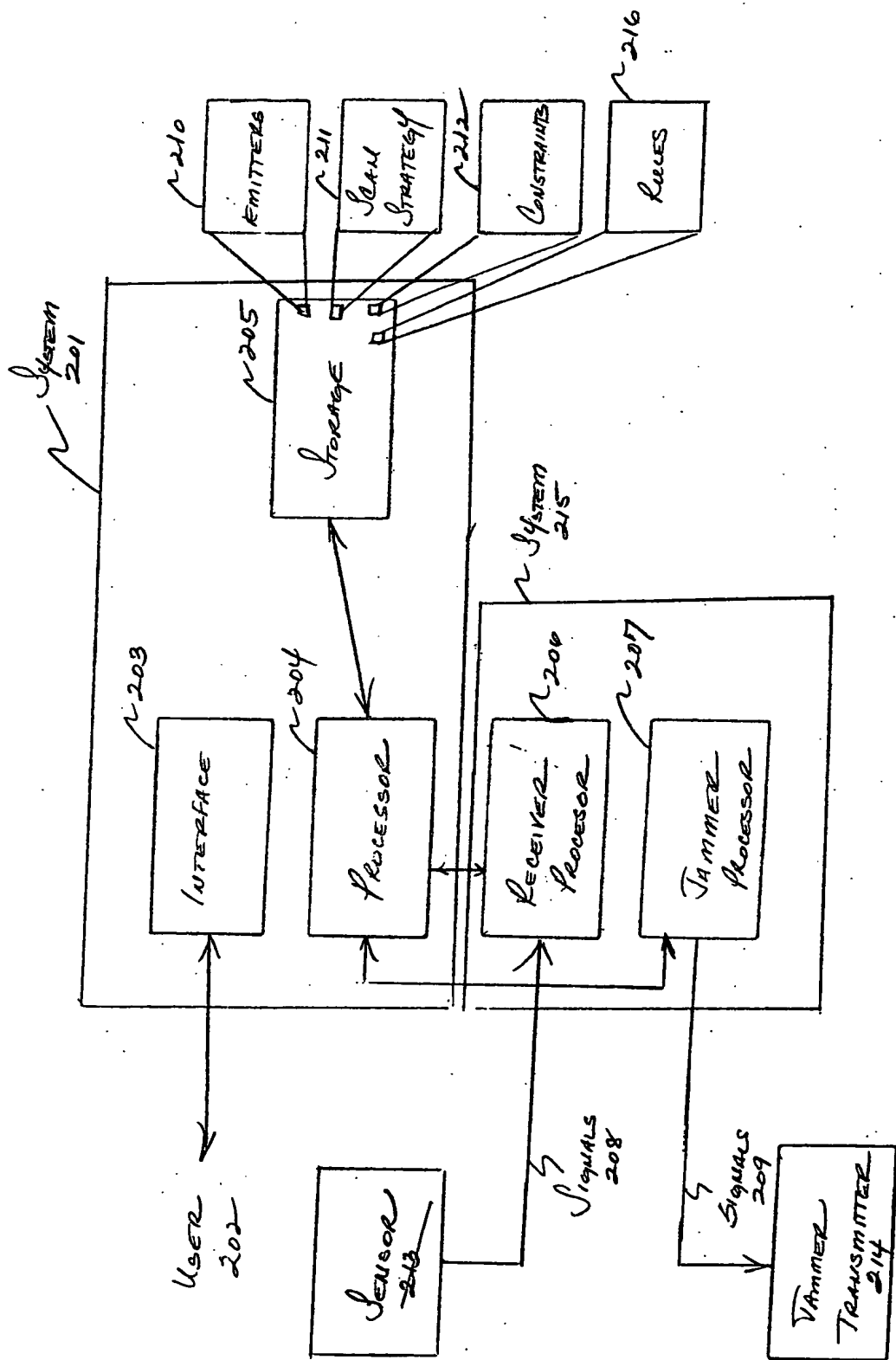
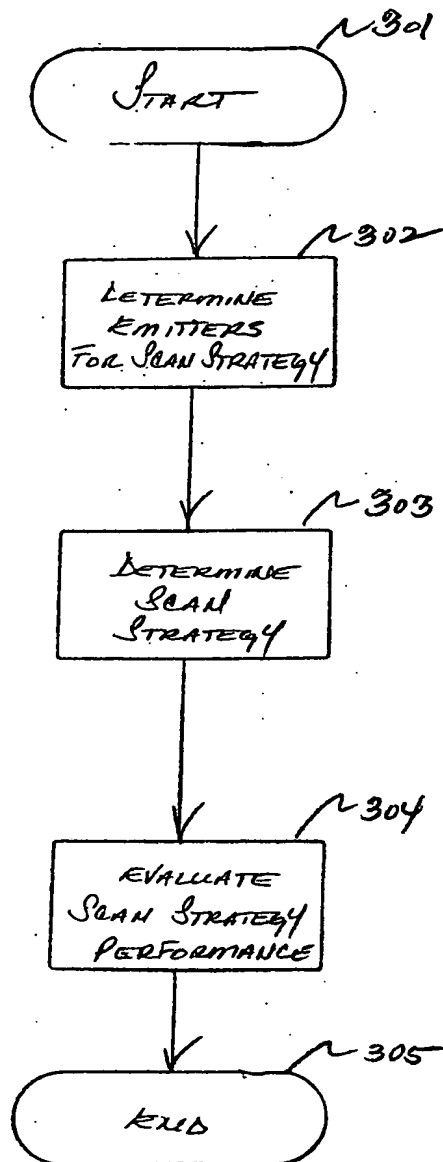


Figure 2



PROCESS  
300

FIGURE 3

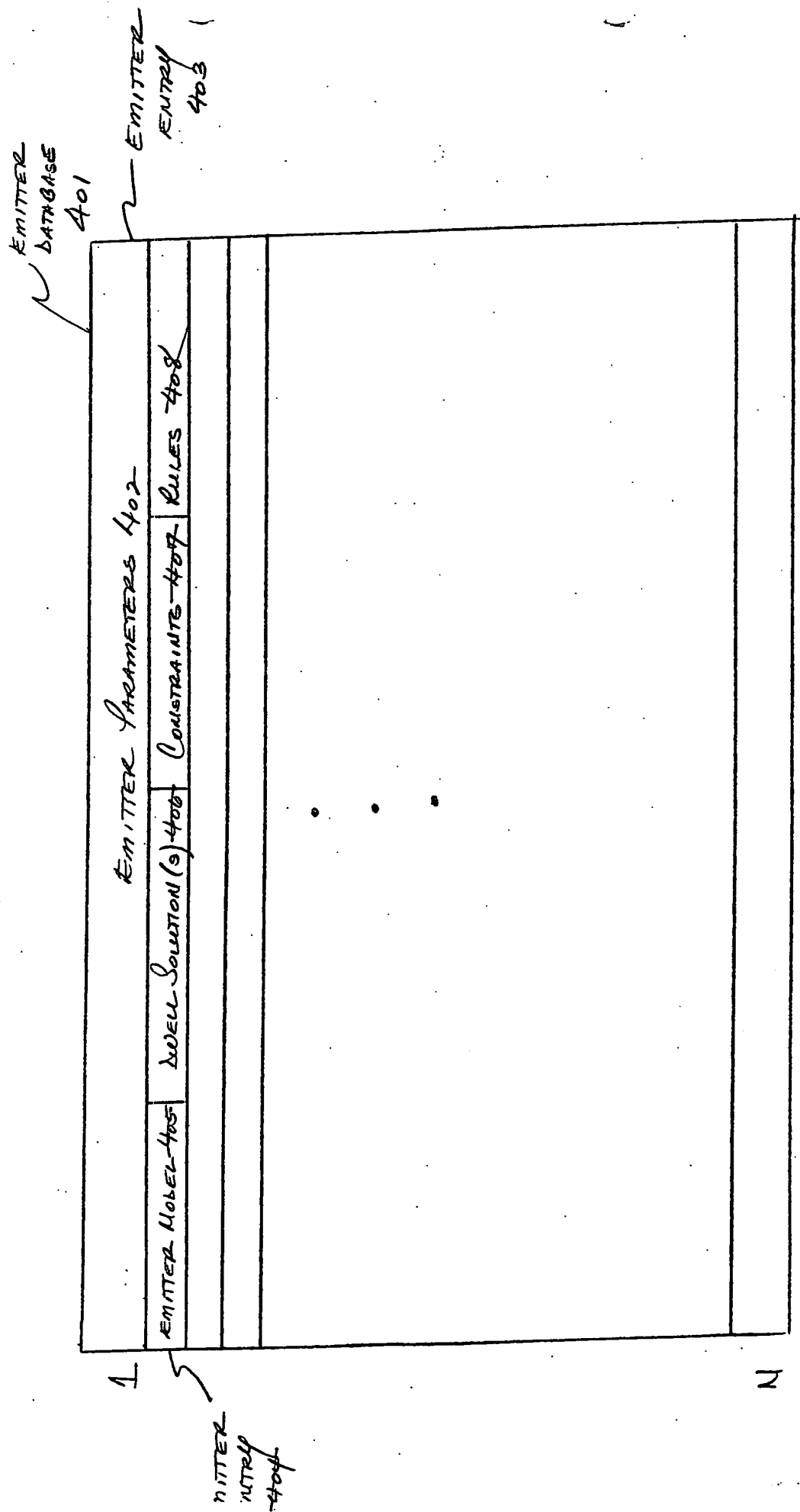


Figure 4

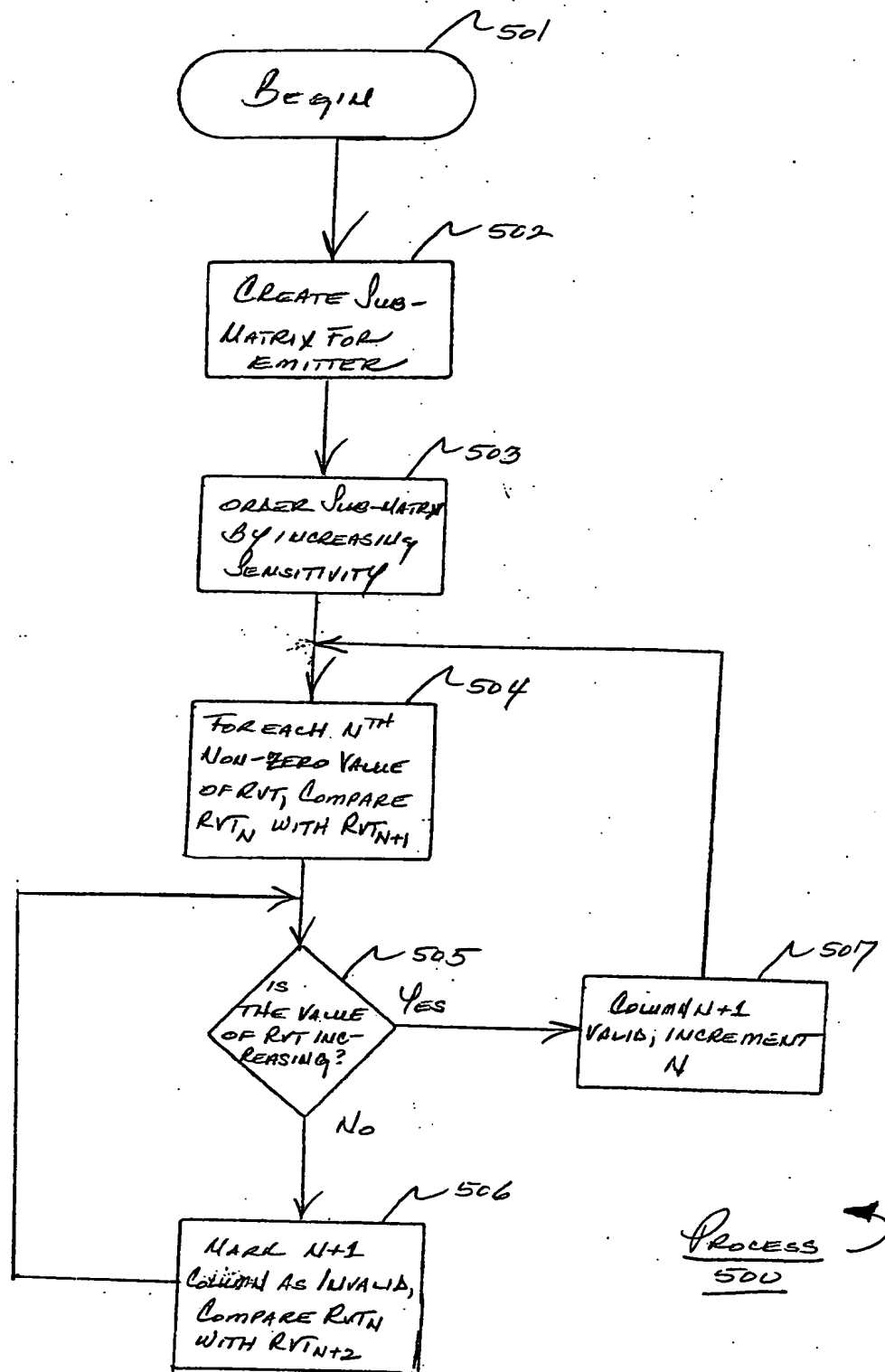


FIGURE 5

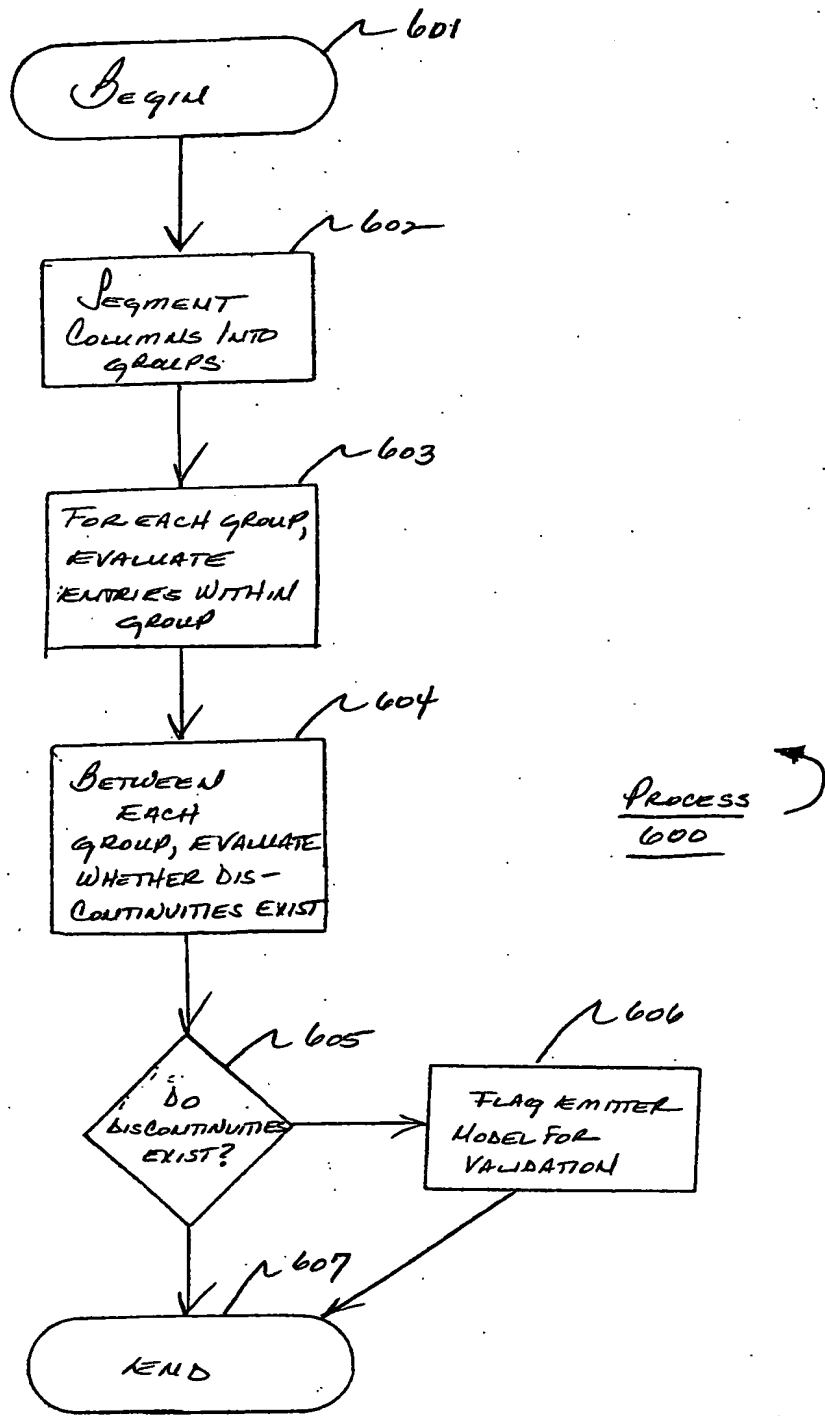


FIGURE 6



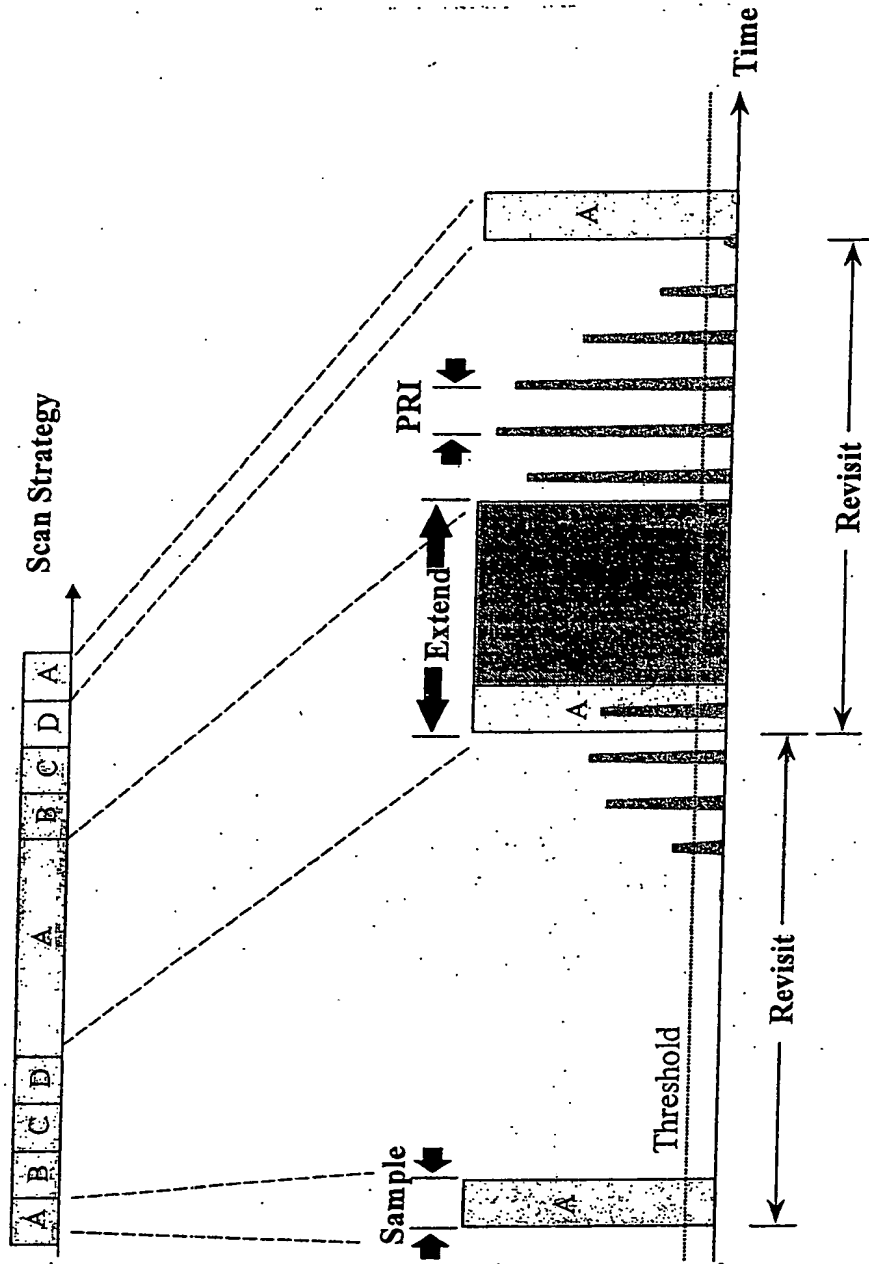


Figure 7

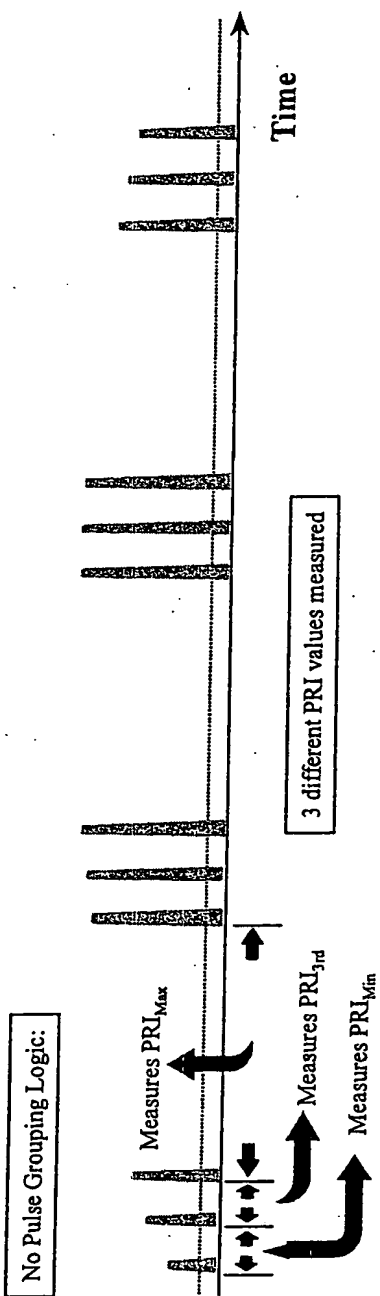


Figure 8A

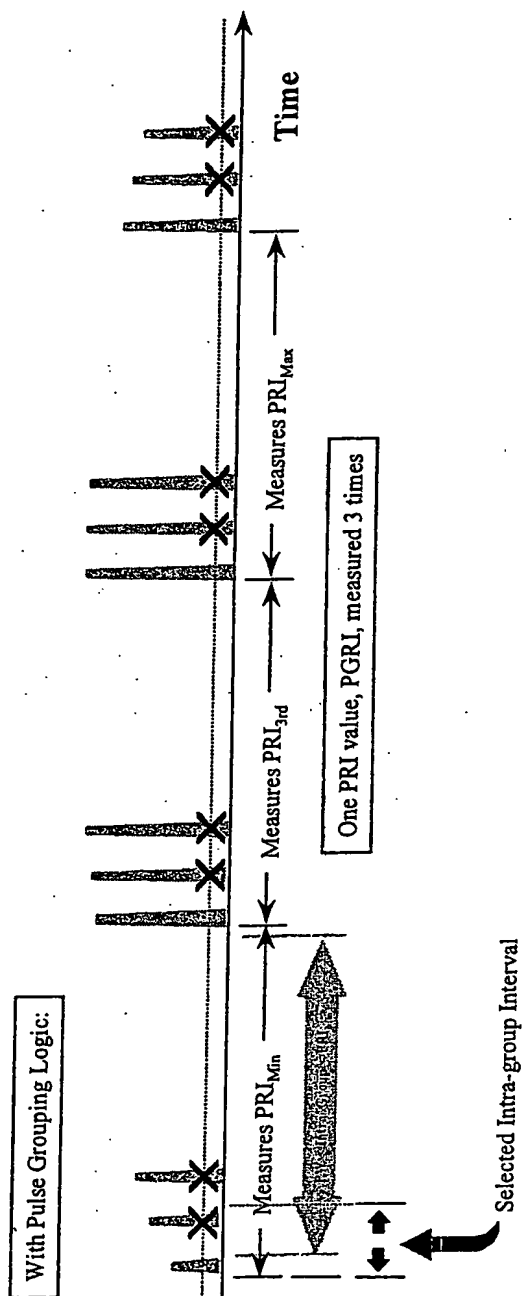


Figure 8B

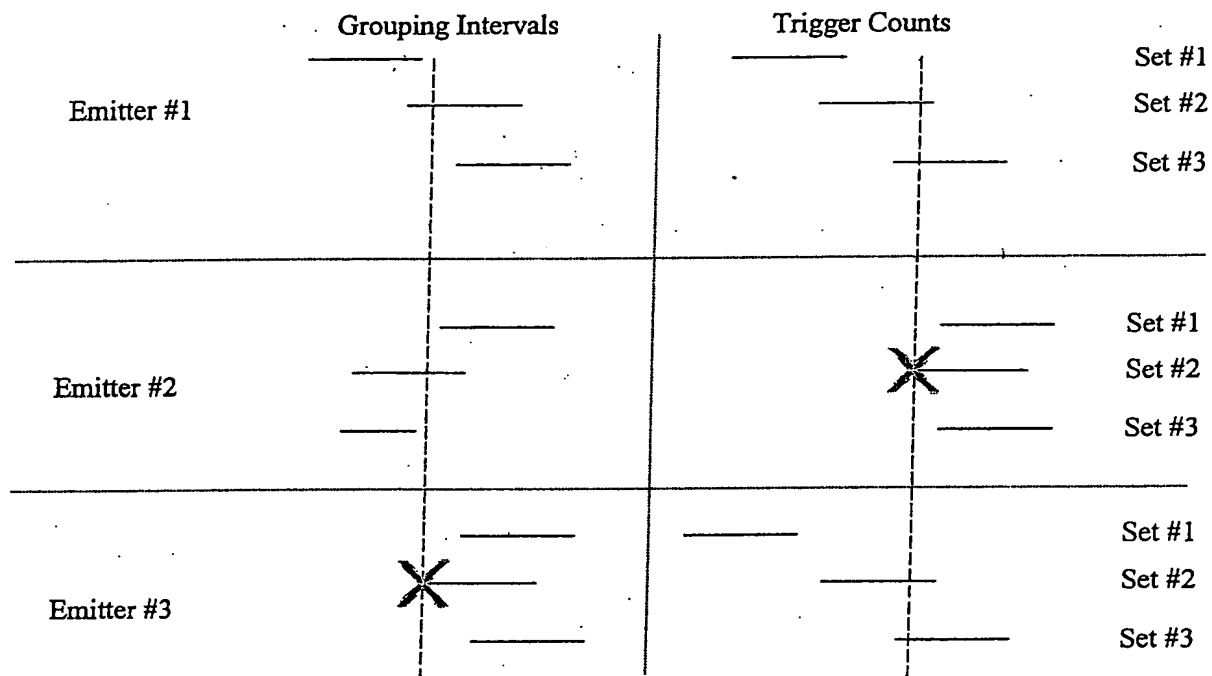
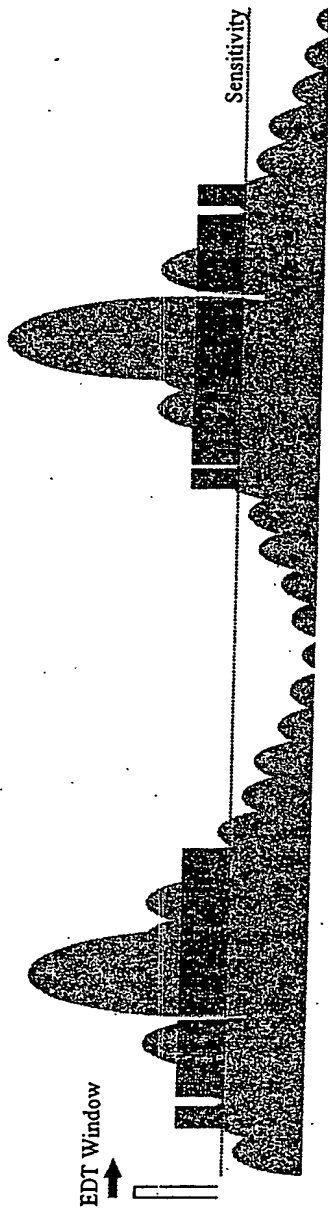


FIGURE 9

Figure 10A



*Discrete Illuminations (TIBS)*

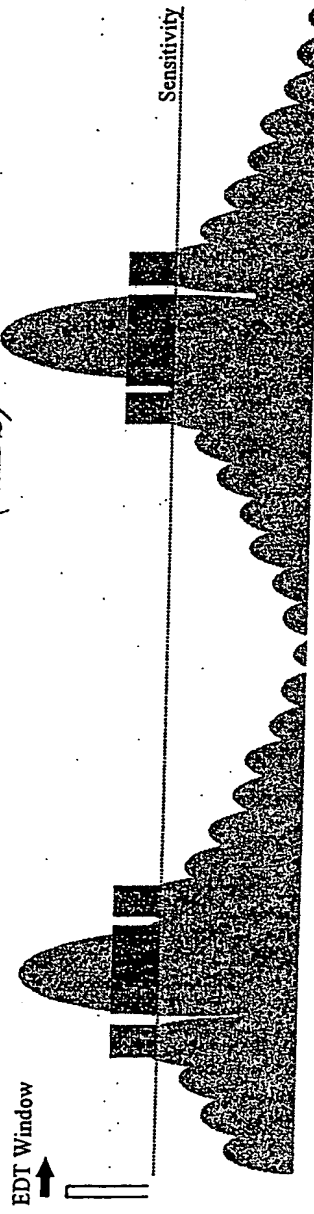


Figure 10B

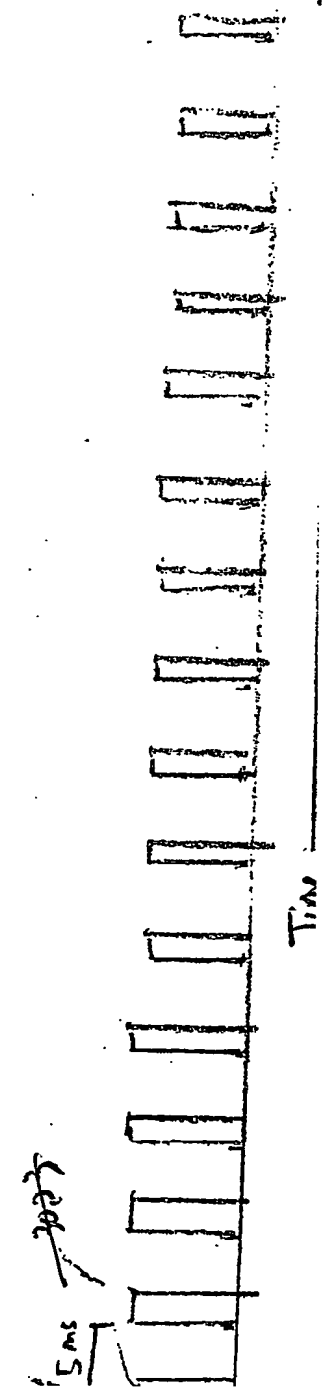
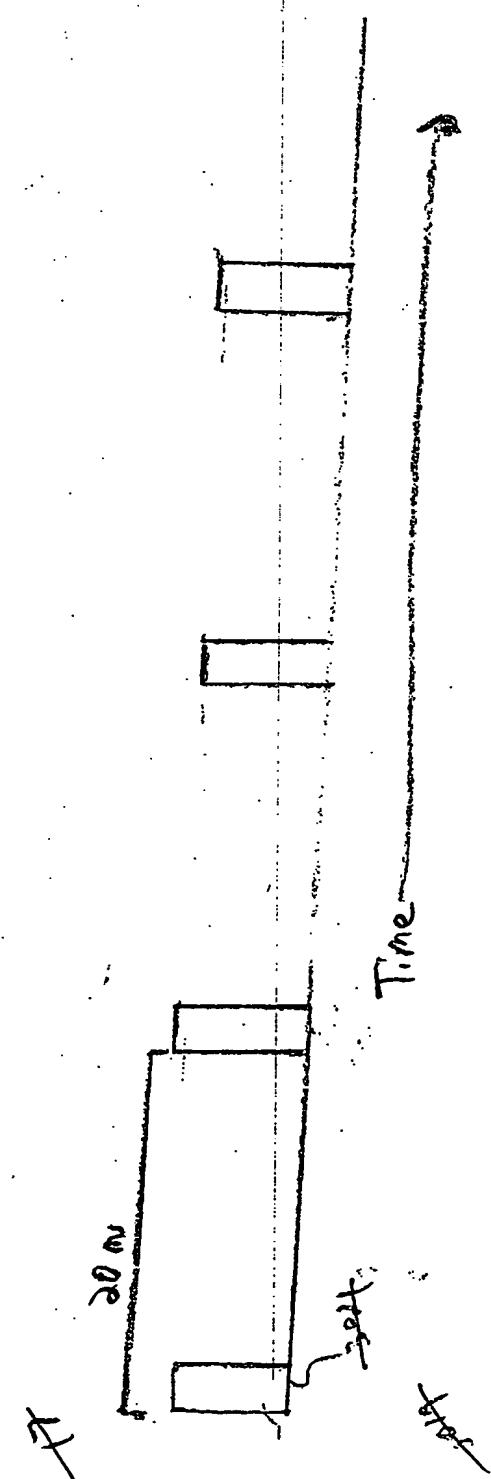
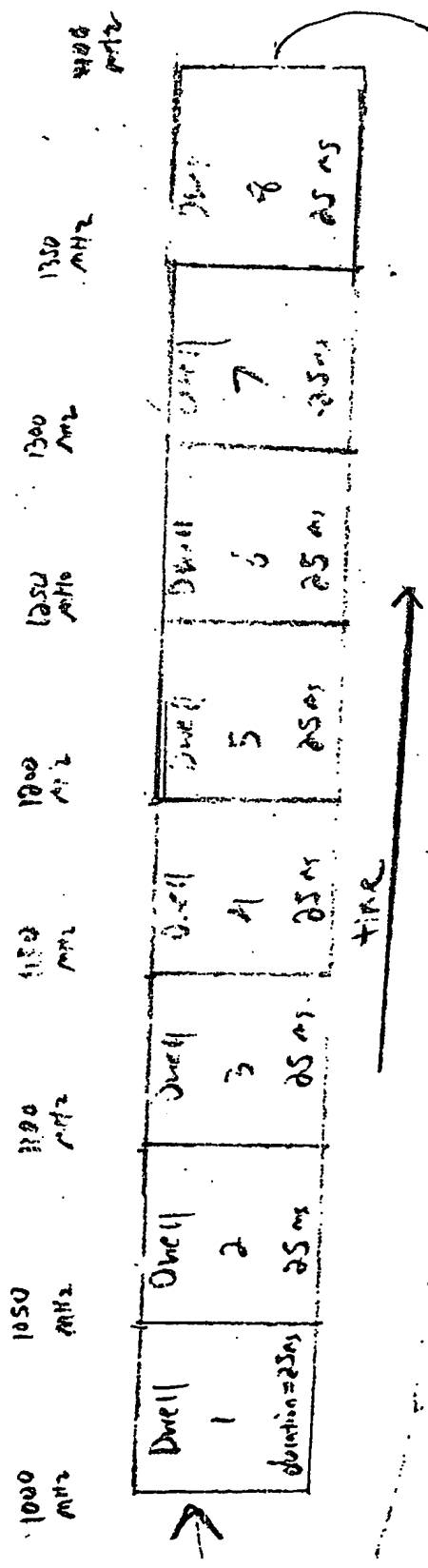
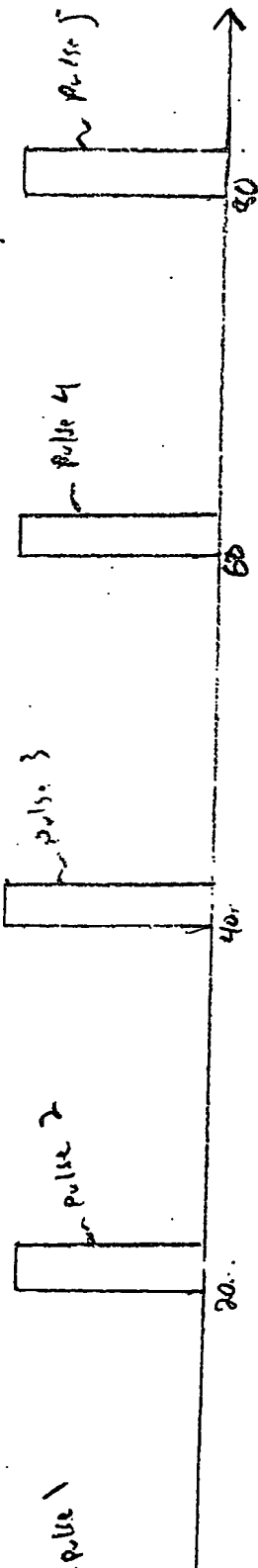


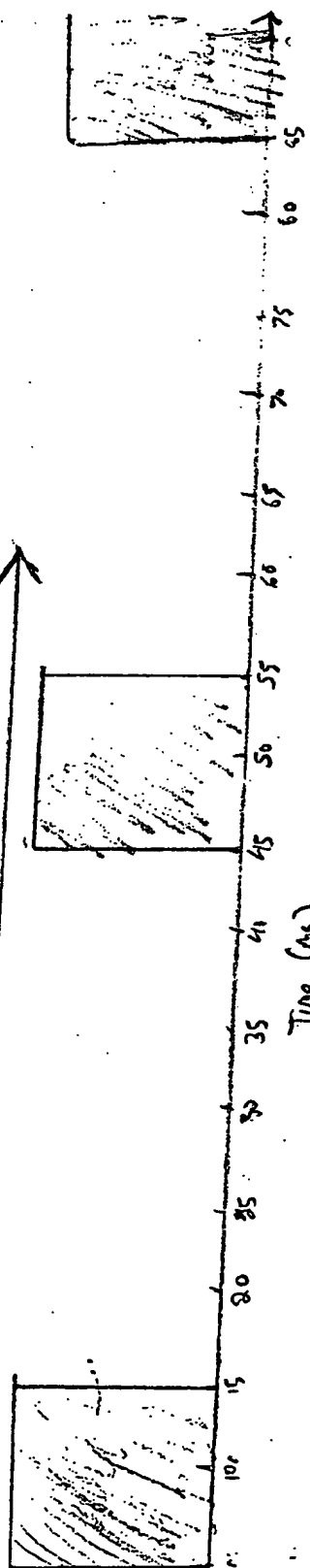
Figure 11

PRI = 20 NS



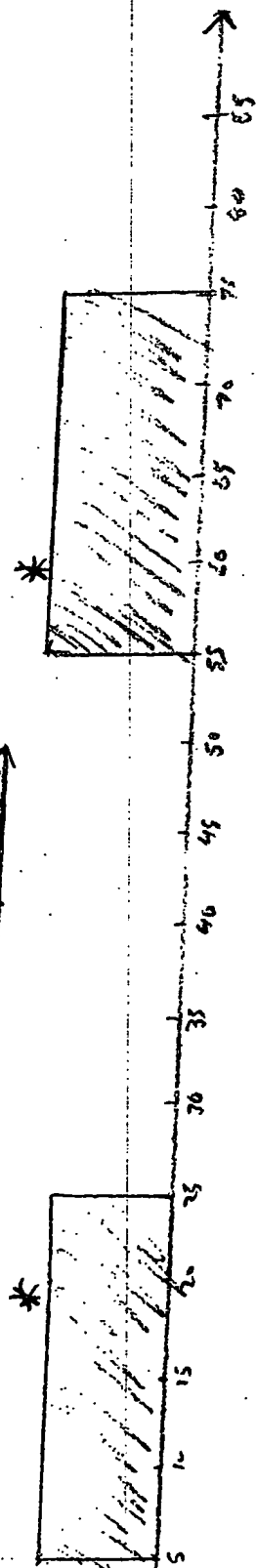
Emitter 3161

Time (ms)



Solution 1  
Drill Duration = 10 ms  
Reset Time = 40 ms

Time (ms)



Solution 2  
Drill Duration = 20 ms  
Reset Time = 50 ms

Time (ms)

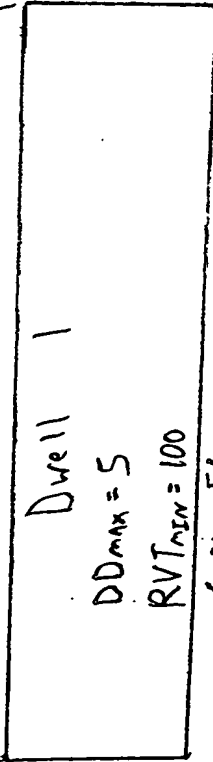
Figure 12

4000

Emitter Name	Operating Mode 2.50 MHz IF 15 MHz VSW	Operating Mode 30 MHz IF 15 MHz VSW	RF Min (MHz)	RF Max (MHz)	Mod (ms)
E1	RV T 100 ns	RV T 650 ns	1000	1300	3
E2	RV T 100 ns	RV T 780 ns	1220	1350	5
E3	RV T 110 ns	RV T 330 ns	1510	1810	2
E4	RV T 130 ns	RV T 390 ns	1730	1860	4

Figure B

1000 1250



Solution 1

Cost =  $\frac{5}{100} = .05$

	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9			
DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax	DDmax			
3	3	3	3	3	3	3	5	5			
RVTrin	RVTrin	RVTrin	RVTrin	RVTrin	RVTrin	RVTrin	RVTrin	RVTrin			
650	650	650	650	650	650	650	650	650			
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost			
$\frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{3}{650} + \frac{5}{650} + \frac{5}{650} =$											

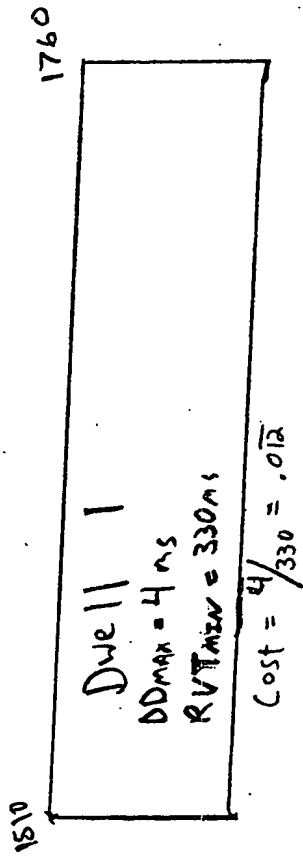
Solution 2

Total  
Cost

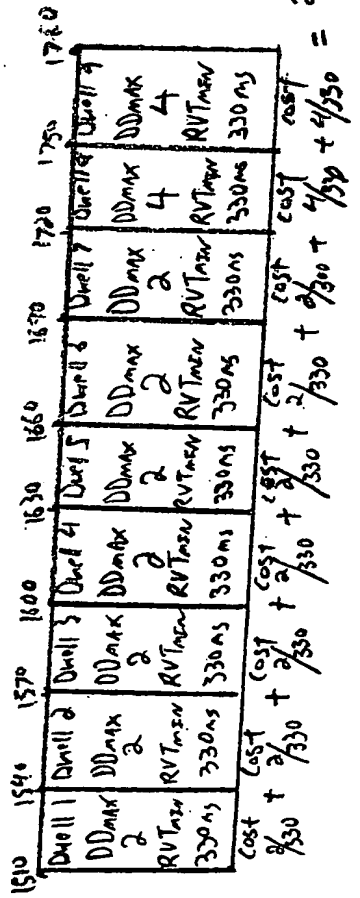
$\frac{31}{650} \approx .048$

Figure 14A





Solution 1



Solution 2

Figure 14B

Figure 15

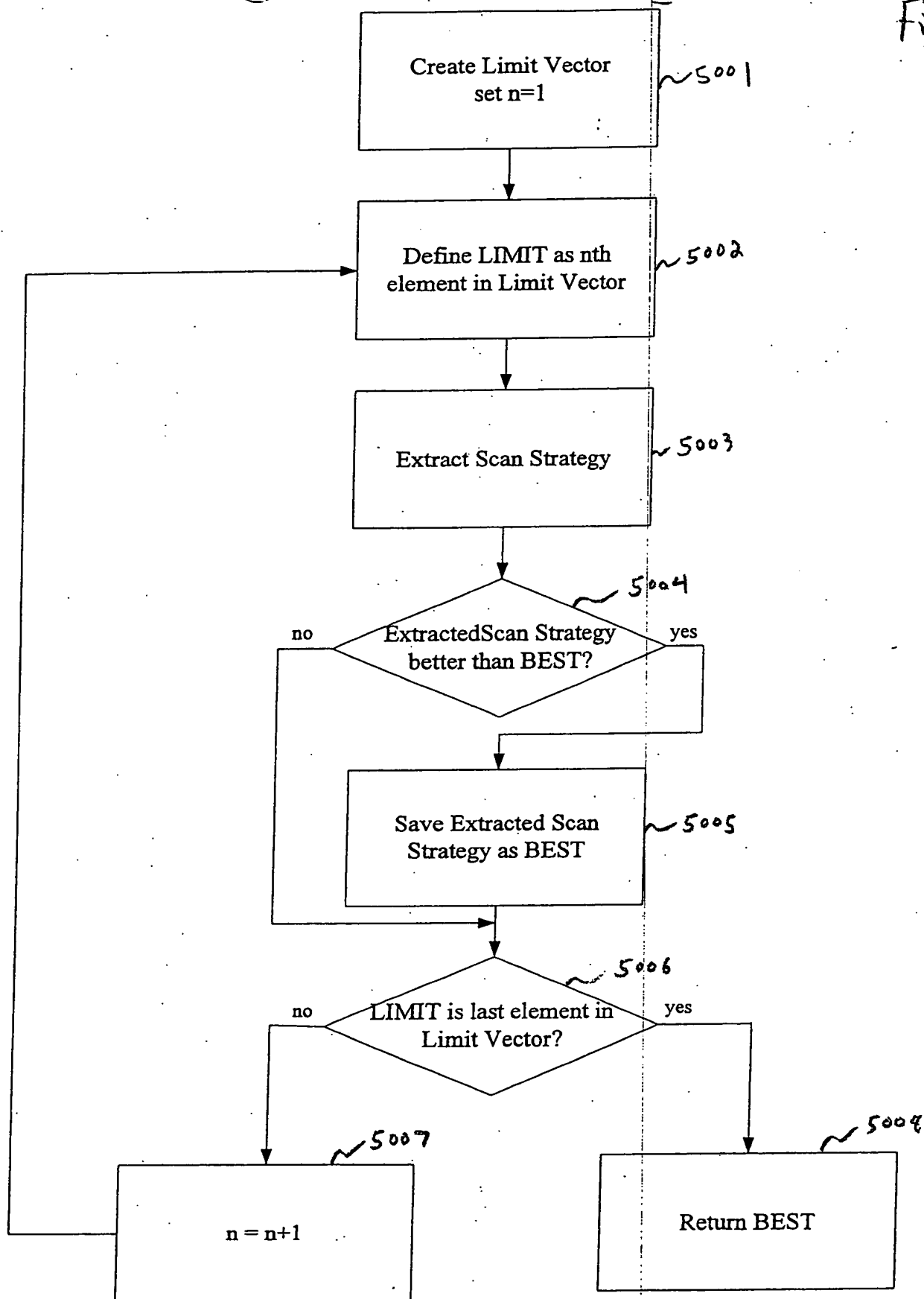
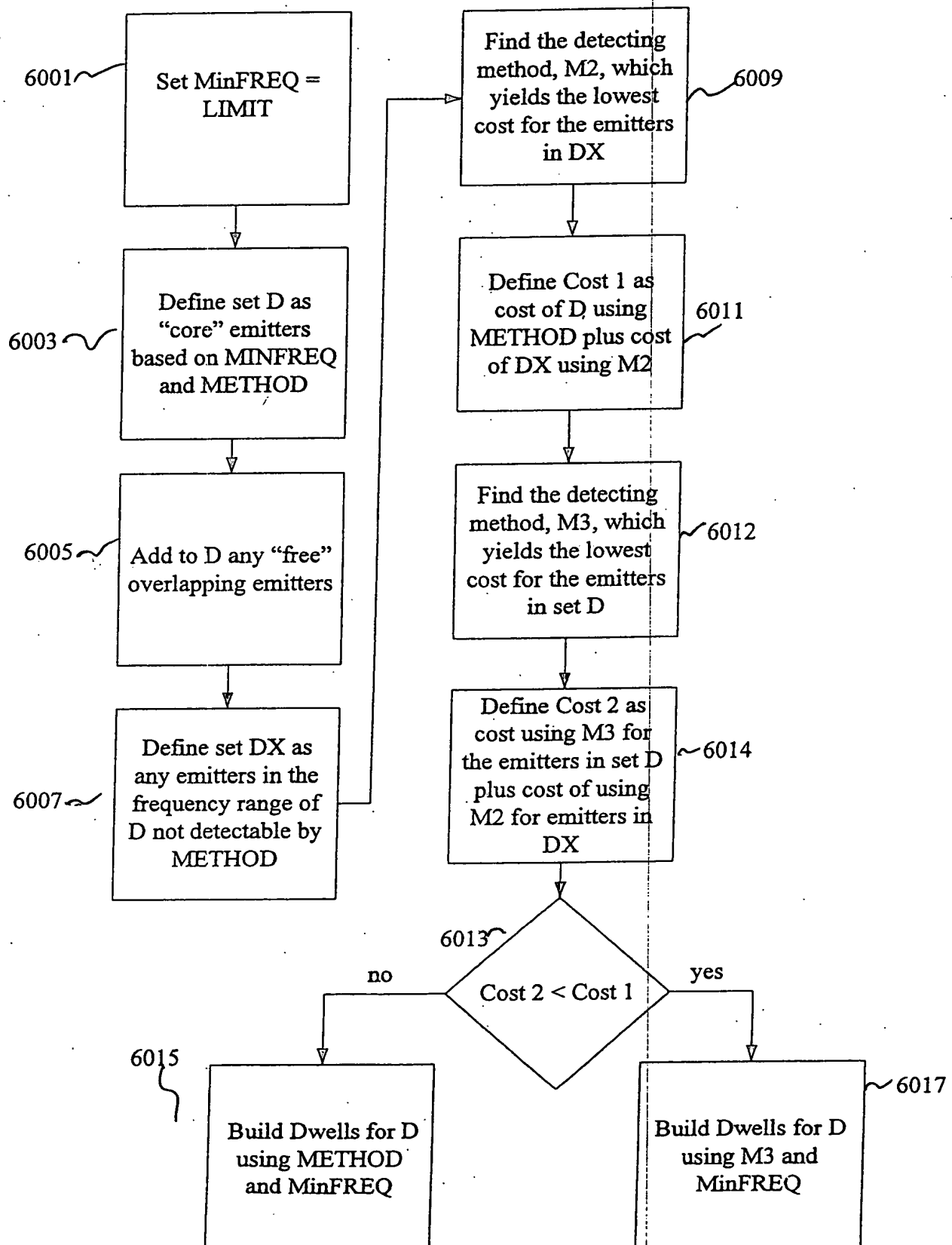


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

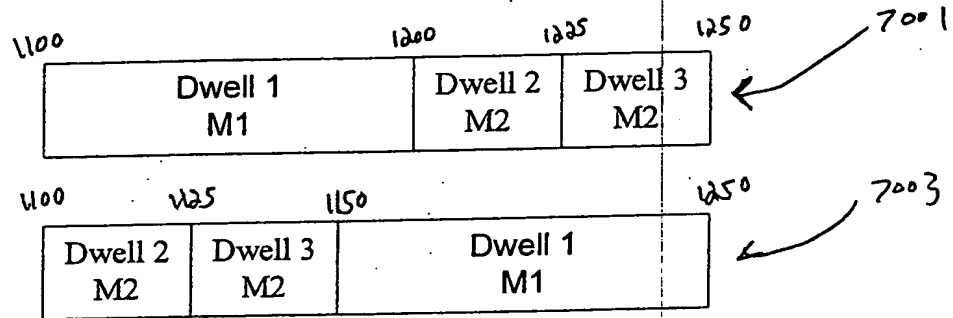
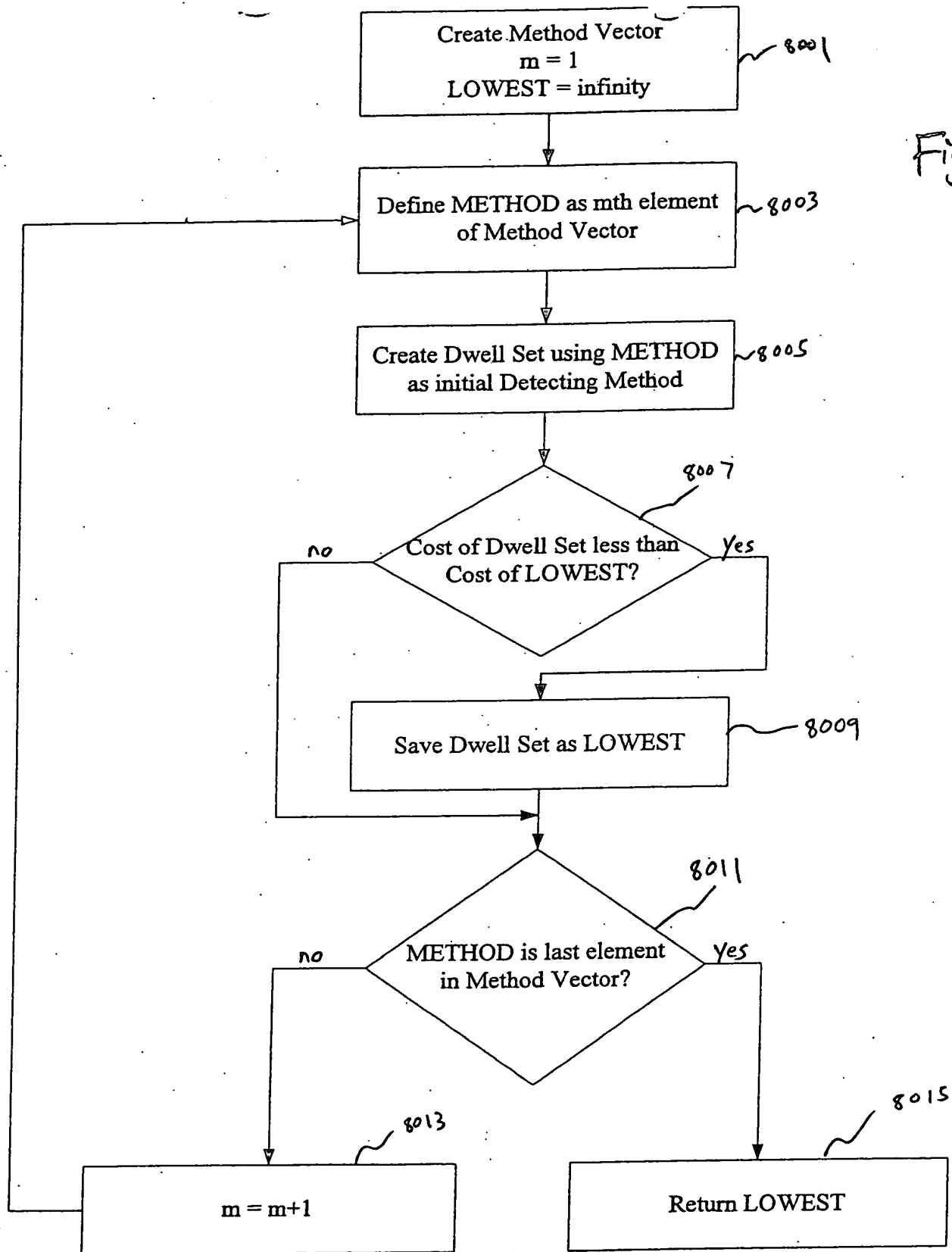


Figure 17

Figure 1:



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

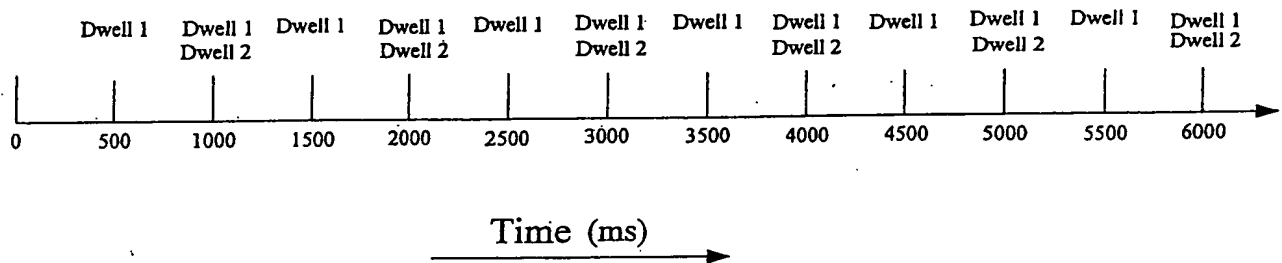


Figure 21



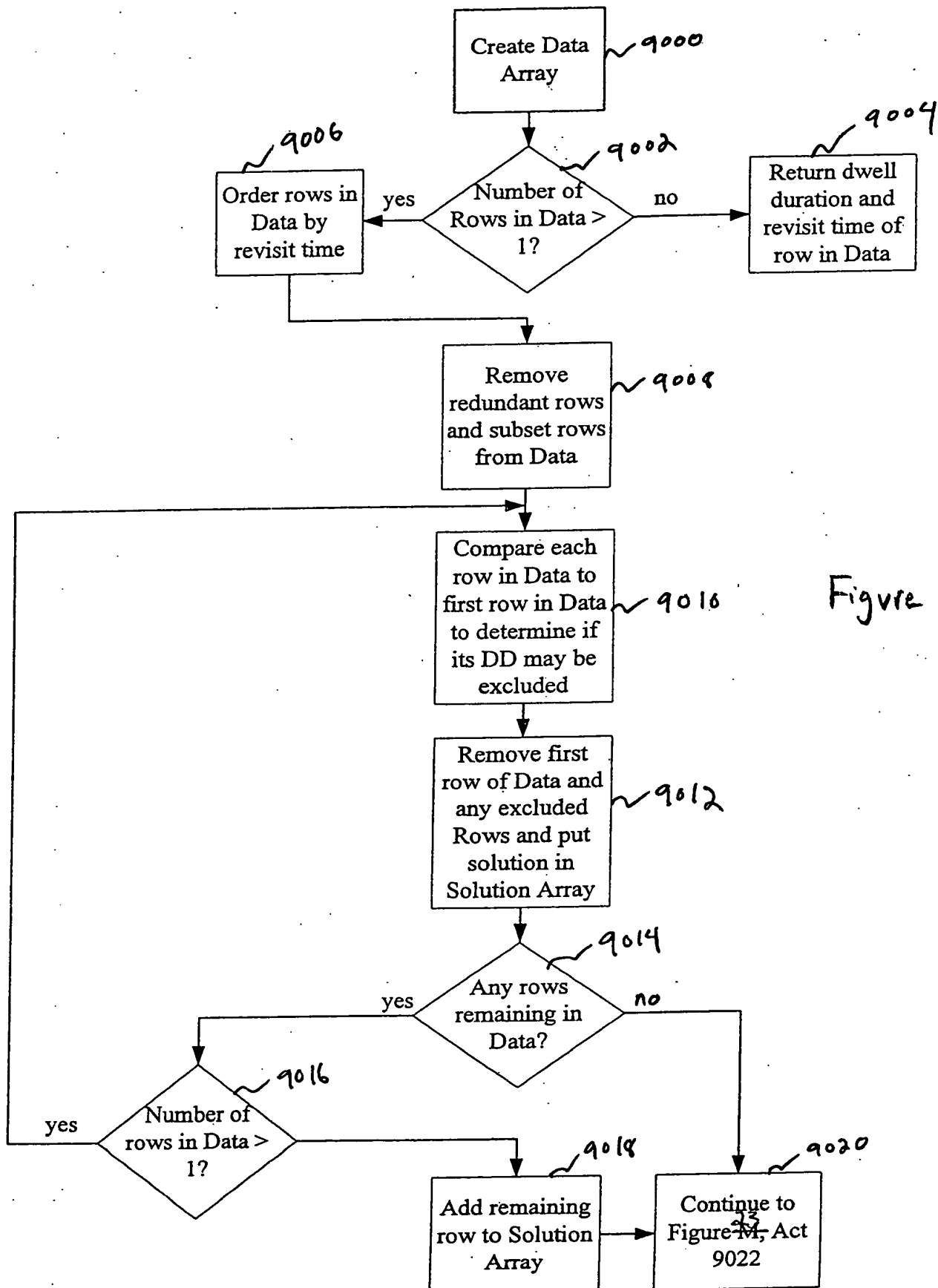


Figure 22

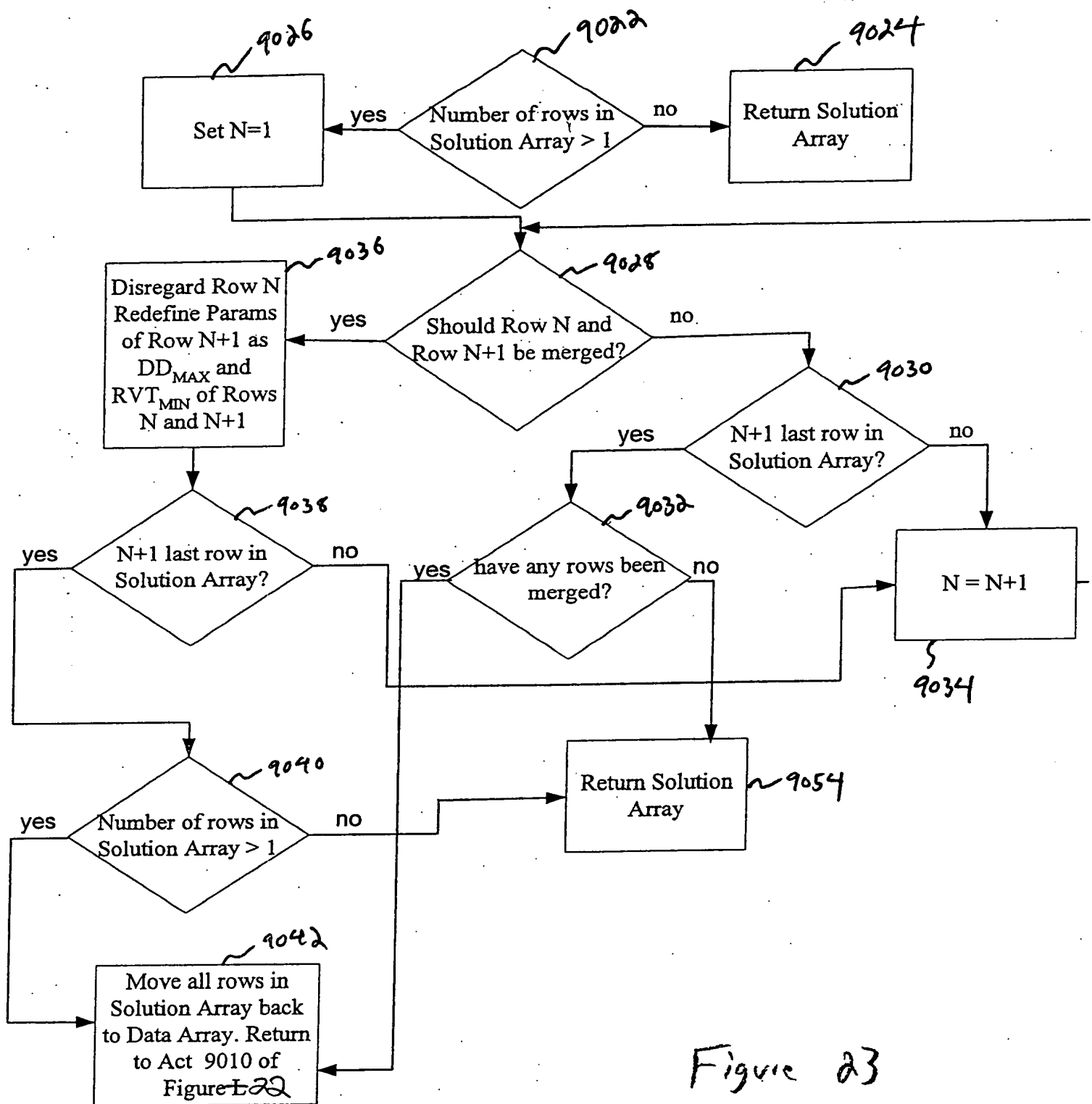


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048  
9049  
9050

Figure 24B

9051  
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

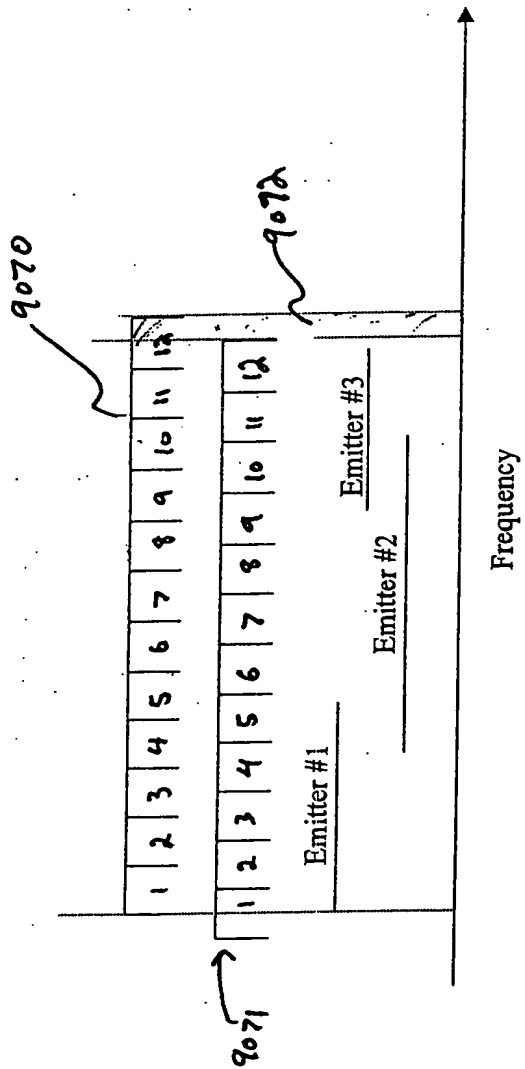


Figure 25

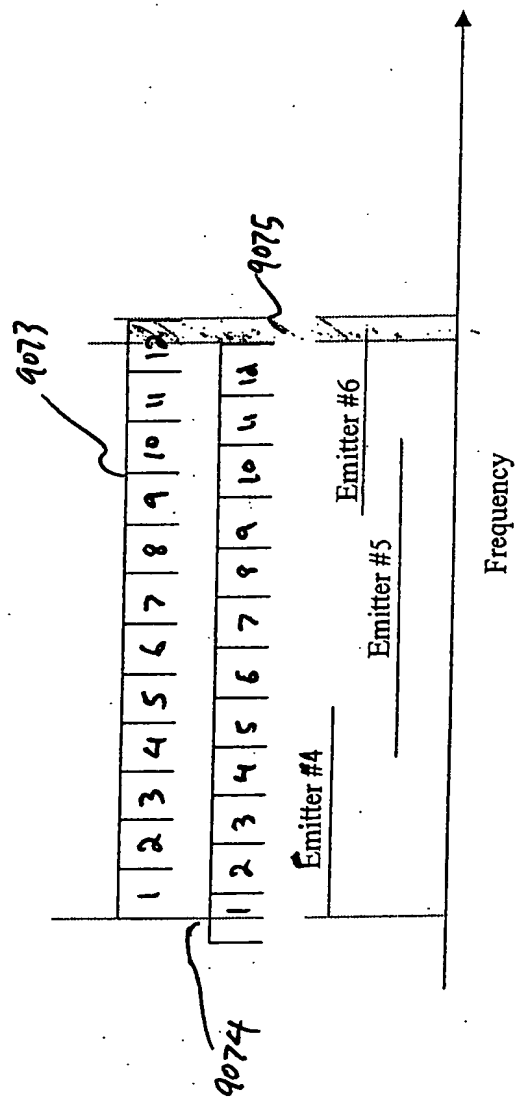


Figure 26

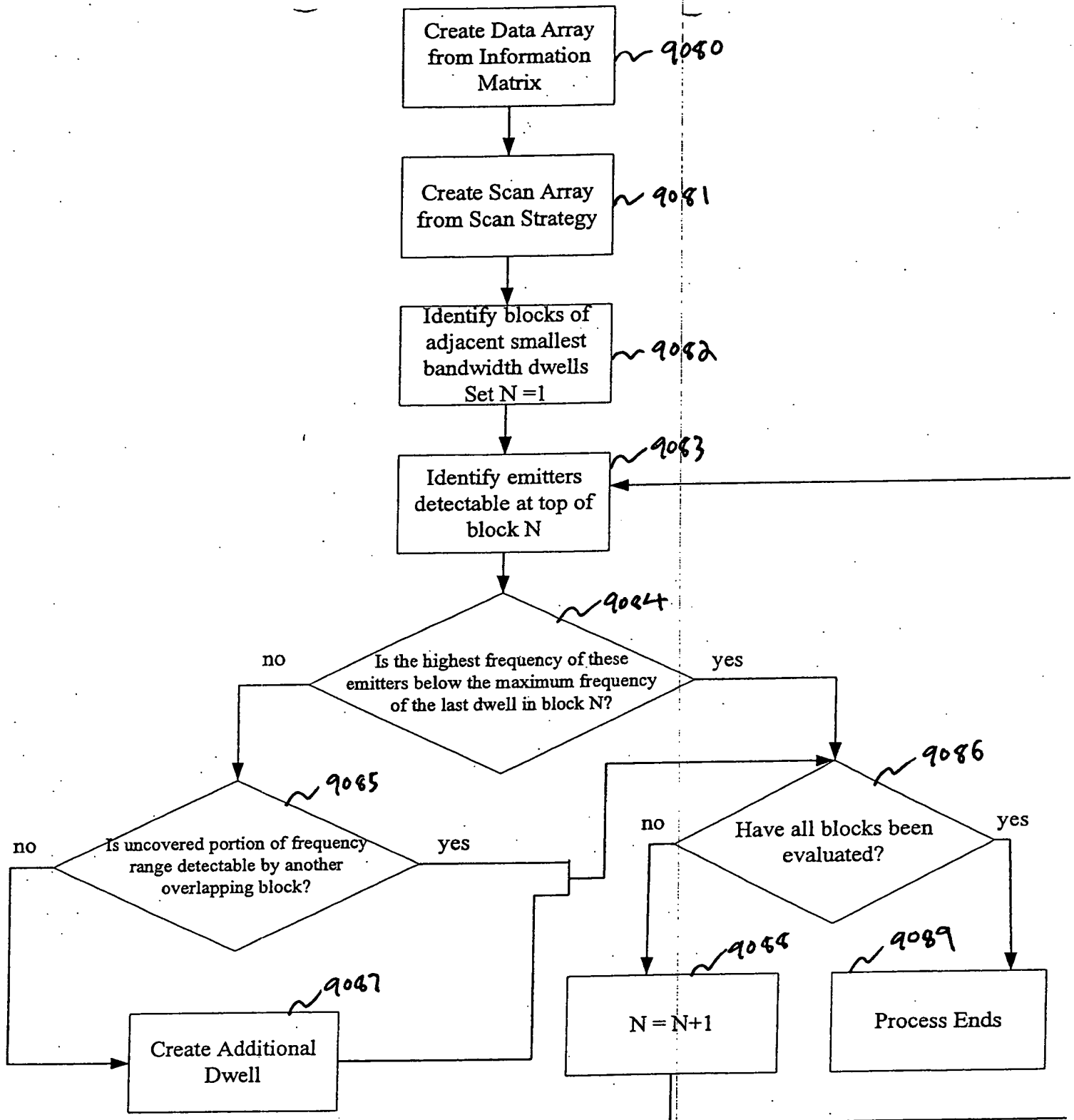


Figure 27

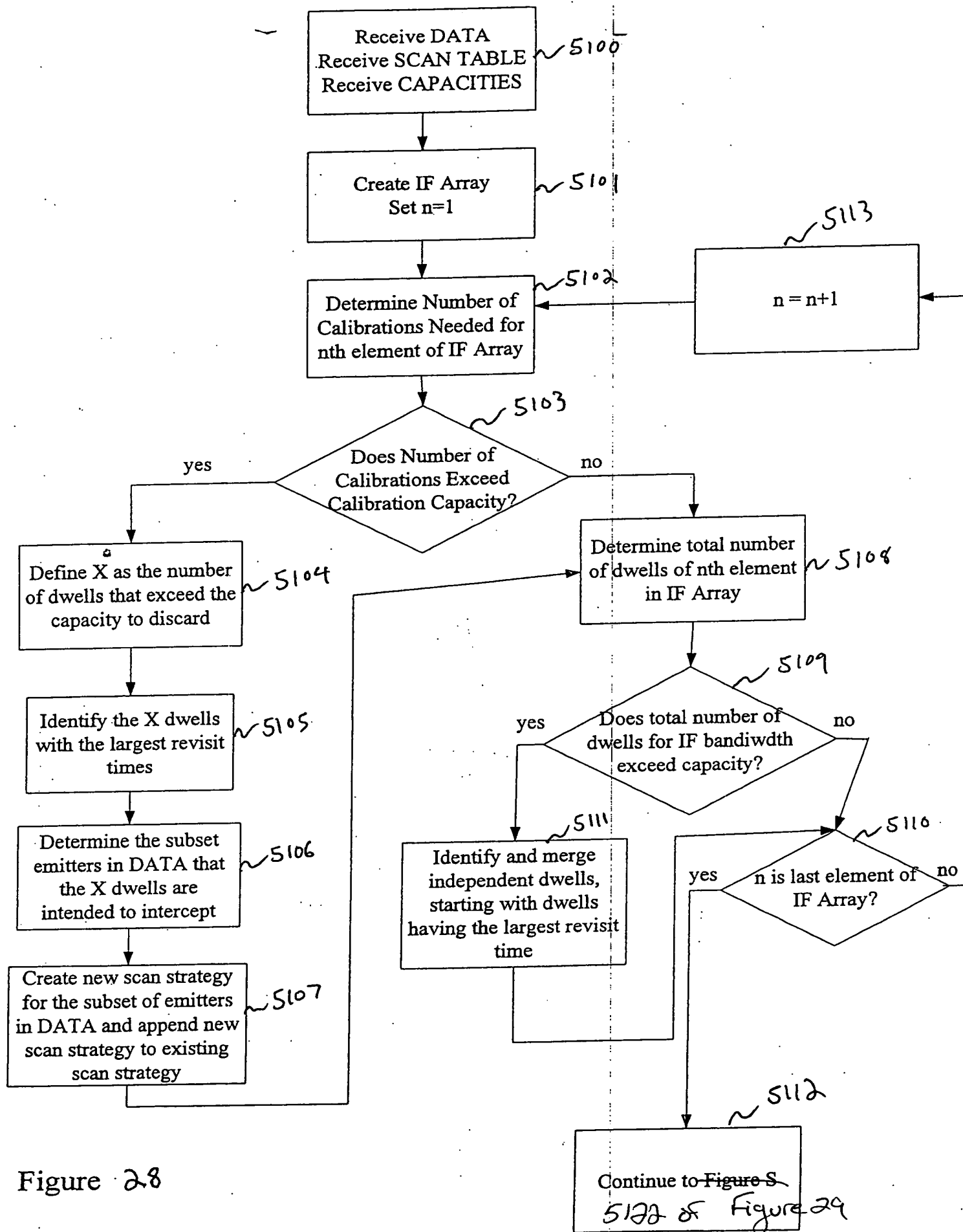


Figure 28

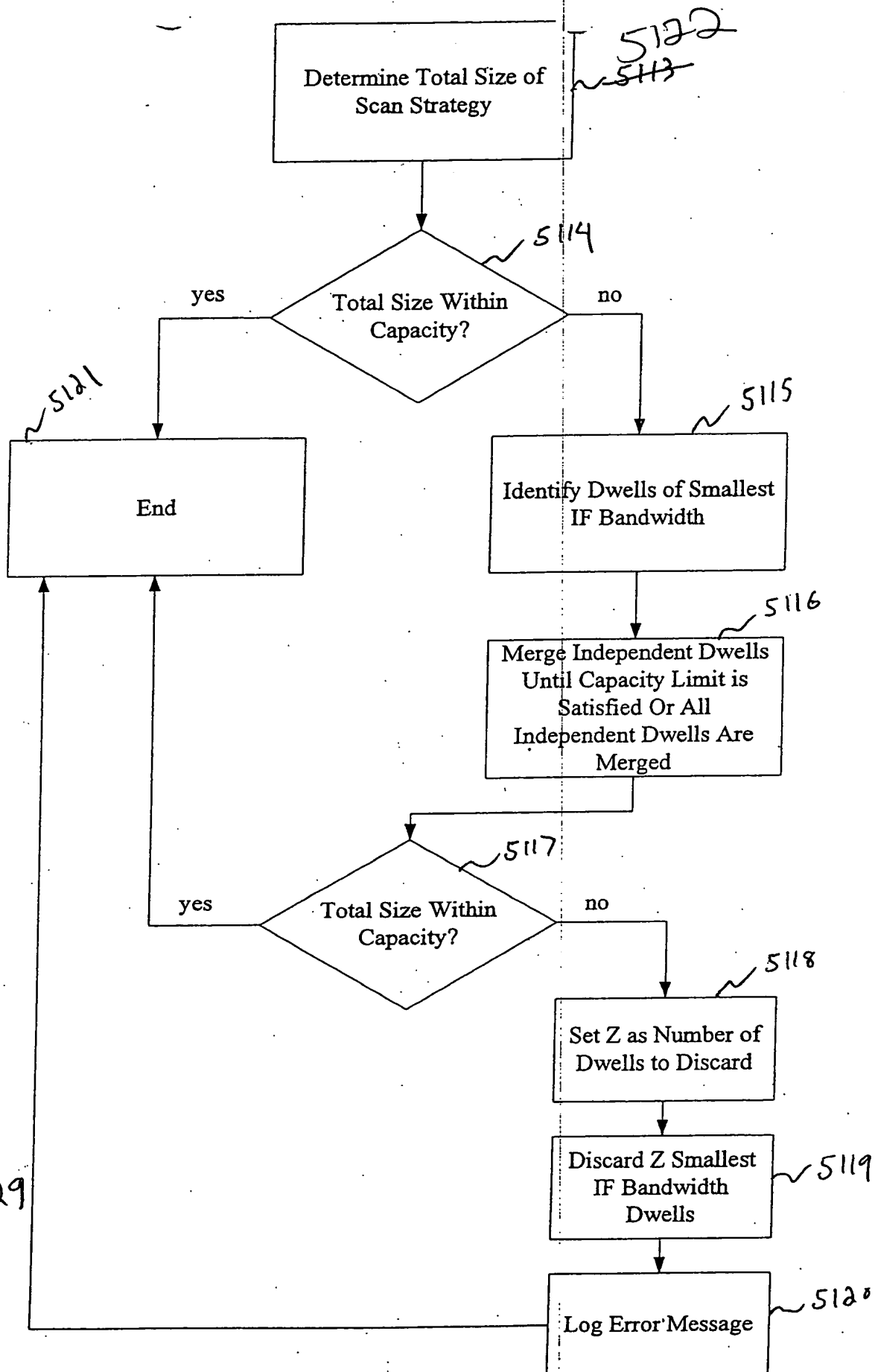


Figure 29



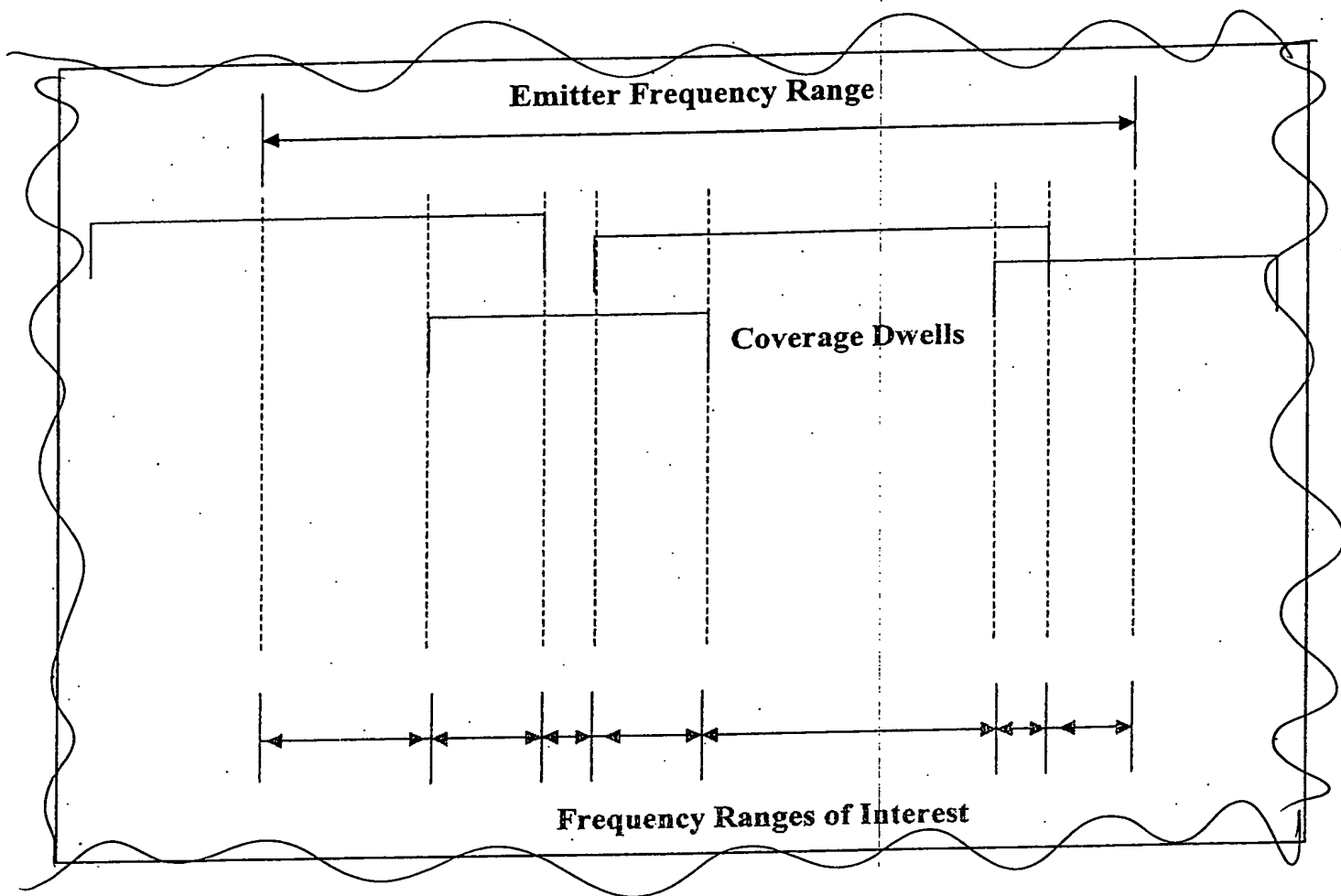


Figure 30

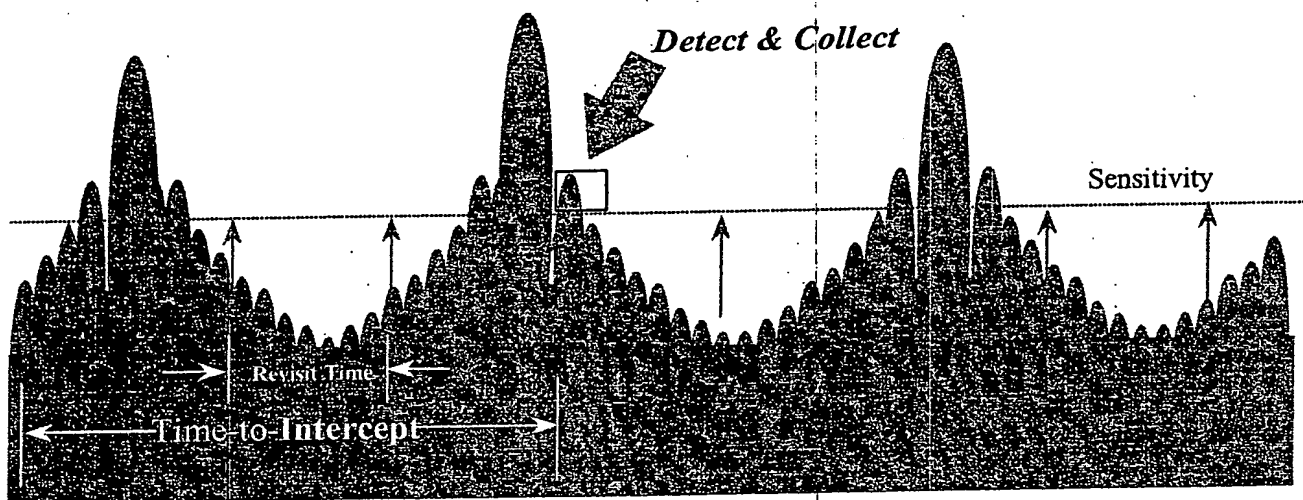


Figure 31

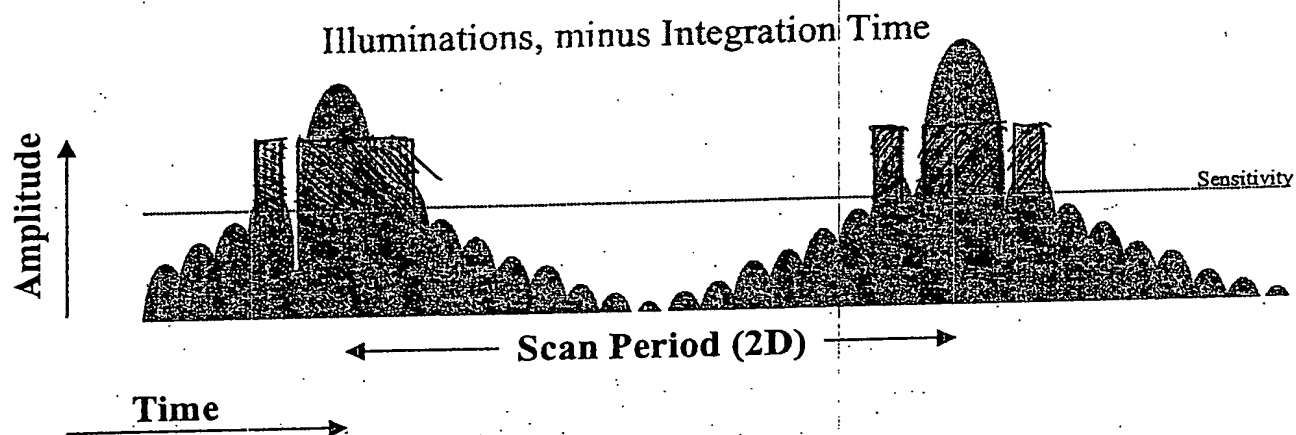


Figure 3a